

**UTILITY PATENT APPLICATION TRANSMITTAL***(Only for new nonprovisional applications under 37 CFR 1.53(b))*16076 U.S. PTO  
04120422387 U.S. PTO  
10/823397  
041204

Attorney Docket No.: 3161-18-3  
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Express Mail Label No.: **EV368036236US**  
Title: "METABOLIC ENGINEERING FOR ENHANCED PRODUCTION OF CHITIN AND CHITOSAN IN MICROORGANISMS"

**Box Patent Application**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

This application claims priority from U.S. Provisional Patent Application No. 60/462,087 filed in April 11, 2003. The entire disclosure of the provisional application is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference. Enclosed for filing with the above-identified utility patent application are the following:

1. Applicant claims small entity status. See 37 CFR 1.27.
2. Specification (Total Pages of Text, including Abstract and Claims: **84**)
3. Drawing(s) (35 USC 113) (Total Sheets: **1 FORMAL**)
4. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. Computer Readable Copy
  - b. Paper Copy (identical to computer copy)
  - c. Attorney for applicants hereby asserts pursuant to 37 CFR § 1.821(f) that the content of the paper of computer readable copies of SEQ ID No:1 through SEQ ID No:59 submitted herewith are identical
5. Return Postcard (MPEP 503) *(should be specifically itemized)*


**FEE CALCULATION:**

|  | (COL. 1)<br>NO. FILED |   |    |  | (COL. 2*)<br>NO. EXTRA |  | SMALL ENTITY |          |    | LARGE ENTITY |          |
|--|-----------------------|---|----|--|------------------------|--|--------------|----------|----|--------------|----------|
|  |                       |   |    |  |                        |  | RATE         | FEE      |    | RATE         | FEE      |
| BASIC FEE:   |                       |   |    |  |                        |  |              | \$385.00 | OR |              | \$770.00 |
| TOTAL CLAIMS:  | 35                    | - | 20 |  | 15                     |  | X \$9 =      | \$135.00 | OR | X \$18 =     |          |
| INDEP. CLAIMS:   | 2                     | - | 3  |  | 0                      |  | X \$43 =     | \$0.00   | OR | X \$86 =     |          |
| ____ MULTIPLE DEPENDENT CLAIMS                                       |                       |   |    |  |                        |  | + \$145 =    | \$       | OR | +\$290 =     |          |
| *IF THE DIFFERENCE IN COL. 2 IS LESS THAN ZERO, ENTER "0" IN COL. 2. |                       |   |    |  |                        |  | TOTAL:       | \$520.00 |    |              |          |

**OTHER INFORMATION:**

1. **NO FEE IS ENCLOSED**
2. The Commissioner is hereby authorized to charge all required fees for extensions of time under §1.17 to Deposit Account No. 19-1970.
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Respectfully submitted,  
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Date: April 12, 2004